

Concordia University

Assignment 1: Surrealistic Collage

Short Essay

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CART 498 - GENERATIVE ARTIFICIAL INTELLIGENCE

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January 22nd, 2025

Applications of Generative AI

There are many domains in which generative AI is useful.

In terms of computer vision, you can generate images by giving a written prompt (text-to-image), which is ideal for quickly prototyping ideas or creating assets for digital collages. You can reimagine existing images (image-to-image), offering opportunities to explore variations or refine the details while preserving the core content. Additionally, it is possible to animate images (image-to-video) to add dynamism to creative projects, particularly for social media content.

In the realm of audio, you can generate short audio clips from written prompts (text-to-audio), which can be used as samples in music composition or sound design. In the same way, you can generate speech (text-to-speech), to provide narration for videos or serve as vocal elements in songs.

Inspiring AI Work

I like the work of Neptunian Glitter Ball (aka Si Parmeggiani), especially the picture shown in the next page, which is part of his book "Clickbait." It is so realistic and detailed; it's crazy how generative AI has evolved since DALL-E was released 4 years ago. I'm impressed by how much control he has on the environment, the textures and the accessories he generates. He also uses AI to animate his characters and his ability to give them quite a broad range of expressions. His mastery highlights the creative possibilities state-of-the-art generative models offer to push artistic boundaries.



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